

RADIOGRAPH INFORMATION READER

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Equivalents:

Abstract

PROBLEM TO BE SOLVED: To enhance the directivity of stimulating light emitted from a line light source and to improve the intensity of the emitted light so as to obtain an image excellent in S/N by using a broad area laser linearly emitting the stimulating light as the line light source.

SOLUTION: The radiograph information accumulated and recorded on a stimuable phosphor sheet 50 is irradiated with a laser beam L being the linear coherent light emitted from the broad area laser 11 so as to be read. Since the linear laser beam L made incident on the sheet 50 is the coherent light, its directivity and its light condensing degree are higher than those of fluorescence emitted from a fluorescent lamp or the light emitted from an LED array and its stimulating energy is larger than that of the fluorescence and the like. Therefore, the stimuable phosphor in the condensing area (line width is about 100 μ m) of the sheet 50 is completely stimulated. As a result, the stimulated luminescence M having the high intensity of the emitted light is emitted from the stimuable phosphor in the condensing area in accordance with the accumulated and recorded radiograph information.

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